10/088369

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L4
     ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AN
     2001:208281 CAPLUS
DN
     134:252333
ΤI
     Preparation of N-(aralkyl) (thienoisoxazolylphenoxy) alkanamines and
analogs
     as dopamine D4 antagonists
IN
     Lee, George E.; Ayers, Timothy A.; Jurcak, John G.
PA
     Aventis Pharmaceuticals, Inc., USA
SO
     PCT Int. Appl., 108 pp.
     CODEN: PIXXD2
DT
     Patent
LА
     English
FAN.CNT 1
     PATENT NO.
                         KIND
                                  DATE
                                              APPLICATION NO.
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PΙ
     WO 2001019832
                           A2
                                  20010322
                                              WO 2000-US24949
                                                                       20000913
     WO 2001019832
                          А3
                                  20011004
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             CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
             HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
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             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
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     EP 1216249
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                                                                       20000913
     EP 1216249
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     NO 2002001249
                           Α
                                 20020510
                                              NO 2002-1249
                                                                      20020313
PRAI US 1999-396156
                           A1
                                 19990914
     WO 2000-US24949
                           W
                                 20000913
OS
     MARPAT 134:252333
     ROZR3 [R3 = thieno[2,3-d]isoxazol-3-yl throughout][I; R = Z1NR1R2 or
AΒ
     1-benzyl-3-pyrrolidinyl; R1 = CH2R4, CH2CH(OH)R4, CHMeR4, indanyl, etc.;
     R2 = H or alkyl; NR1R2 = heterocyclyl; R4 = cyclohexenyl, (hetero)aryl,
     etc.; Z = phenylene; Z1 = alkylene] were prepared Thus, 3-bromothiophene
     was acylated by 3-(MeO)C6H4COCl and the oximated product cyclized to
give,
     after O-demethylation, 3-R3C6H4OH which was etherified by
     3-FC6H4CH2NHCOCH2Cl (preparation given) and the product reduced to give
     3-R3C6H4OCH2CH2NHCH2C6H4F-3. Data for biol. activity of I were given.
     330678-74-5P 330678-75-6P 330678-76-7P
     330678-77-8P 330678-78-9P 330678-79-0P
     330678-80-3P 330678-81-4P 330678-82-5P
     330678-83-6P 330678-84-7P 330678-85-8P
     330678-86-9P 330678-87-0P 330678-88-1P
     330678-89-2P 330678-90-5P 330678-91-6P
     330678-92-7P 330678-93-8P 330678-94-9P
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330678-95-0P 330678-96-1P 330678-97-2P
     330678-98-3P 330678-99-4P 330679-00-0P
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     330679-31-7P 330679-32-8P 330679-33-9P
     330679-34-0P 330679-35-1P 330679-36-2P
     330679-37-3P 330679-38-4P 330679-39-5P
     330981-75-4P
     RL: BAC (Biological activity or effector, except adverse); BSU
(Biological
     study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
        (preparation of N-(aralkyl)(thienoisoxazolylphenoxy)alkanamines and
analogs
        as dopamine D4 antagonists)
     330678-74-5 CAPLUS
RN
CN
     Benzenemethanamine, 3-fluoro-N-[2-(3-thieno[2,3-d]isoxazol-3-
    ylphenoxy)ethyl] - (9CI) (CA INDEX NAME)
                        - CH2- CH2- NH- CH2
RN
     330678-75-6 CAPLUS
    Benzenemethanamine, 3-fluoro-N-[2-(3-thieno[2,3-d]isoxazol-3-
CN
```

ylphenoxy)ethyl]-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CRN 110-16-7 CMF C4 H4 O4 Double bond geometry as shown.

RN 330678-76-7 CAPLUS

CN Benzenemethanamine, 3-fluoro-N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)

HCl

RN 330678-77-8 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-[[(3S)-1-(phenylmethyl)-3-pyrrolidinyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

HCl

RN 330678-78-9 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-[[(3S)-1-(phenylmethyl)-3-pyrrolidinyl]oxy]phenyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 330678-79-0 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-[[(3R)-1-(phenylmethyl)-3-pyrrolidinyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

HCl

RN 330678-80-3 CAPLUS

CN Benzenemethanamine, 3-fluoro-N-[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl]- (9CI) (CA INDEX NAME)

RN 330678-81-4 CAPLUS

CN Benzenemethanamine, N-[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)

HCl

RN 330678-82-5 CAPLUS

CN Benzenemethanamine, N-[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl]-(9CI) (CA INDEX NAME)

RN 330678-83-6 CAPLUS

CN Benzenemethanamine, 4-fluoro-N-[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl]- (9CI) (CA INDEX NAME)

RN 330678-84-7 CAPLUS

CN Benzenemethanamine, 4-chloro-N-[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl]- (9CI) (CA INDEX NAME)

RN 330678-85-8 CAPLUS

CN Benzenemethanamine, 4-methoxy-N-[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl]- (9CI) (CA INDEX NAME)

RN 330678-87-0 CAPLUS
CN 3-Thiophenemethanamine,
N-[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl](9CI) (CA INDEX NAME)

RN 330678-88-1 CAPLUS
CN 3-Pyridinemethanamine, N-[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl](9CI) (CA INDEX NAME)

RN 330678-89-2 CAPLUS

CN Benzenemethanol, $\alpha-[[[3-(3-\text{thieno}[2,3-\text{d}]\text{isoxazol}-3-\text{ylphenoxy})\text{propyl}]\text{amino}]\text{methyl}]- (9CI) (CA INDEX NAME)$

RN 330678-90-5 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-[3-(4-phenyl-1-piperazinyl)propoxy]phenyl]-(9CI) (CA INDEX NAME)

RN 330678-91-6 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-[4-(4-fluorophenyl)-1-piperazinyl]propoxy]phenyl]- (9CI) (CA INDEX NAME)

RN 330678-92-7 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-[4-(2-fluorophenyl)-1-piperazinyl]propoxy]phenyl]- (9CI) (CA INDEX NAME)

RN 330678-93-8 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-[4-(2-pyrimidinyl)-1-piperazinyl]propoxy]phenyl]- (9CI) (CA INDEX NAME)

RN 330678-94-9 CAPLUS

CN Benzenesulfonamide, 4-[[[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl]amino]methyl]- (9CI) (CA INDEX NAME)

RN 330678-95-0 CAPLUS

CN Benzenesulfonamide, 4-[2-[[3-(3-thieno[2,3-d]isoxazol-3-

ylphenoxy)propyl]amino]ethyl]- (9CI) (CA INDEX NAME)

RN 330678-96-1 CAPLUS

CN Benzenemethanamine, 2-methoxy-N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]- (9CI) (CA INDEX NAME)

RN 330678-97-2 CAPLUS

CN Benzenemethanamine, 4-fluoro-N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ \hline & & \\ S & & & \\ \hline & & \\ O - CH_2 - CH_2 - NH - CH_2 \\ \hline \end{array}$$

RN 330678-98-3 CAPLUS

CN Benzenemethanamine, 4-chloro-N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]- (9CI) (CA INDEX NAME)

RN 330678-99-4 CAPLUS

CN Benzenemethanamine, 4-methyl-N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]- (9CI) (CA INDEX NAME)

RN 330679-00-0 CAPLUS

CN Benzenemethanamine, 3,4-dichloro-N-[2-(3-thieno[2,3-d]isoxazol-3-

ylphenoxy)ethyl]- (9CI) (CA INDEX NAME)

RN 330679-01-1 CAPLUS

CN 3-Thiophenemethanamine, N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]-(9CI) (CA INDEX NAME)

RN 330679-02-2 CAPLUS

CN 2-Thiophenemethanamine, N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]-(9CI) (CA INDEX NAME)

RN 330679-03-3 CAPLUS

CN 3-Pyridinemethanamine, N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]- (9CI) (CA INDEX NAME)

RN 330679-04-4 CAPLUS

CN Isoquinoline, 1,2,3,4-tetrahydro-2-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)

● HCl

RN 330679-05-5 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-[2-(4-phenyl-1-piperidinyl)ethoxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

● HCl

RN 330679-06-6 CAPLUS

CN Benzenemethanamine, N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]-2-(trifluoromethyl)- (9CI) (CA INDEX NAME)

RN 330679-07-7 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-[2-(1-piperidinyl)ethoxy]phenyl]- (9CI) (CA INDEX NAME)

RN 330679-08-8 CAPLUS

CN Benzenemethanamine, 2,4-difluoro-N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]- (9CI) (CA INDEX NAME)

RN 330679-09-9 CAPLUS

CN Benzenemethanamine, 2,6-difluoro-N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]- (9CI) (CA INDEX NAME)

RN 330679-10-2 CAPLUS

CN Tricyclo[3.3.1.13,7]decan-1-amine, N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]- (9CI) (CA INDEX NAME)

RN 330679-11-3 CAPLUS

CN Benzenemethanamine, N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)

RN 330679-12-4 CAPLUS

CN Benzenemethanamine, 2-fluoro-N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]- (9CI) (CA INDEX NAME)

10/088369

RN 330679-13-5 CAPLUS

CN Benzenemethanamine, 2-chloro-N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]- (9CI) (CA INDEX NAME)

RN 330679-14-6 CAPLUS

CN Benzenemethanamine, 3-methoxy-N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]- (9CI) (CA INDEX NAME)

RN 330679-15-7 CAPLUS

CN Benzenemethanamine, 3,4-difluoro-N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]- (9CI) (CA INDEX NAME)

RN 330679-16-8 CAPLUS

CN 1H-Inden-1-amine, 2,3-dihydro-N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]- (9CI) (CA INDEX NAME)

RN 330679-17-9 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-[2-(4-methyl-1-piperidinyl)ethoxy]phenyl]-(9CI) (CA INDEX NAME)

RN 330679-18-0 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-[2-(4-propyl-1-piperidinyl)ethoxy]phenyl]-(9CI) (CA INDEX NAME)

RN 330679-19-1 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-[2-(1-pyrrolidinyl)ethoxy]phenyl]- (9CI)

(CA

INDEX NAME)

RN 330679-20-4 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-[2-(hexahydro-1H-azepin-1-yl)ethoxy]phenyl]-(9CI) (CA INDEX NAME)

RN 330679-21-5 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-[2-(hexahydro-1(2H)-azocinyl)ethoxy]phenyl]-(9CI) (CA INDEX NAME)

RN 330679-22-6 CAPLUS

CN Benzenemethanamine, N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]-(9CI) (CA INDEX NAME)

RN 330679-23-7 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-[2-(4-phenyl-1-piperazinyl)ethoxy]phenyl]-(9CI) (CA INDEX NAME)

$$S$$
 $O-CH_2-CH_2-N$ Ph

RN 330679-24-8 CAPLUS

CN Benzenemethanamine, N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)

● HCl

RN 330679-25-9 CAPLUS

CN Benzenemethanamine, 4-methyl-N-[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl]- (9CI) (CA INDEX NAME)

RN 330679-26-0 CAPLUS

CN Benzenemethanamine, 2-chloro-N-[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl]- (9CI) (CA INDEX NAME)

RN 330679-27-1 CAPLUS

CN Benzenemethanamine, 3-methoxy-N-[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl]- (9CI) (CA INDEX NAME)

RN 330679-28-2 CAPLUS

CN Benzenemethanamine, 3,4-difluoro-N-[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl]- (9CI) (CA INDEX NAME)

RN 330679-29-3 CAPLUS

CN 1H-Inden-1-amine, 2,3-dihydro-N-[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl]- (9CI) (CA INDEX NAME)

RN 330679-30-6 CAPLUS

CN 1H-Inden-2-amine, 2,3-dihydro-N-[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl]- (9CI) (CA INDEX NAME)

RN 330679-31-7 CAPLUS

CN Isoquinoline, 1,2,3,4-tetrahydro-2-[3-(3-thieno[2,3-d]isoxazol-3-

ylphenoxy)propyl]- (9CI) (CA INDEX NAME)

RN 330679-32-8 CAPLUS

CN lH-Inden-2-amine, 2,3-dihydro-N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)

HCl

RN 330679-33-9 CAPLUS

CN Tricyclo[3.3.1.13,7]decan-1-amine, N-[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl]- (9CI) (CA INDEX NAME)

RN 330679-34-0 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-[3-(1-piperidinyl)propoxy]phenyl]- (9CI)

(CA

INDEX NAME)

RN 330679-35-1 CAPLUS

CN Benzenemethanamine, 2,4-difluoro-N-[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl]- (9CI) (CA INDEX NAME)

RN 330679-36-2 CAPLUS

CN Benzenemethanamine, 2,6-difluoro-N-[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl]- (9CI) (CA INDEX NAME)

RN 330679-37-3 CAPLUS

CN Benzenemethanamine, N-[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl]-2-(trifluoromethyl)- (9CI) (CA INDEX NAME)

RN 330679-38-4 CAPLUS

CN Benzenemethanamine, N-[3-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)propyl]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)

RN 330679-39-5 CAPLUS

CN 3-Thiophenemethanamine,

N-[2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)

● HCl

RN 330981-75-4 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-[[(3R)-1-(phenylmethyl)-3-pyrrolidinyl]oxy]phenyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

IT 330679-41-9P 330679-44-2P 330679-45-3P 330679-46-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

 $(preparation\ of\ N-(aralkyl)\ (thie no is oxazolyl phenoxy)\ alkanamines\ and\ analogs$

as dopamine D4 antagonists)

RN 330679-41-9 CAPLUS

CN Acetamide, N-[(3-fluorophenyl)methyl]-2-(3-thieno[2,3-d]isoxazol-3-ylphenoxy)- (9CI) (CA INDEX NAME)

RN 330679-44-2 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-(2-bromoethoxy)phenyl]- (9CI) (CA INDEX NAME)

RN 330679-45-3 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-(3-bromopropoxy)phenyl]- (9CI) (CA INDEX NAME)

RN 330679-46-4 CAPLUS

CN Thieno[2,3-d]isoxazole, 3-[3-(3-chloropropoxy)phenyl]- (9CI) (CA INDEX NAME)